

## **Some Targets for the LAAS Public Star Party on Saturday, June 15, 2013**

**Sunset at 8:07 p.m. PDT**

**At 9:00 p.m. PDT the Sidereal Time (Right Ascension at the Meridian) is 13 hours 45.15 minutes**

### **SHOWCASE OBJECTS**

#### **The Moon**

6½ days old (1<sup>st</sup> Quarter is at 10:24 a.m. PDT on June 16); in Leo SE of Regulus & SW of Denebola.

Prominent features near the terminator: the Alpine Valley and craters Aristoteles & Eudoxus in the North; crater Triesnecker and the lunar “V” formation near the middle; and complex crater Stöfler in the South.

**Saturn** In Virgo, E of Spica; Its giant moon, Titan, is about 4 Saturn diameters directly north of the planet at 9:00 p.m. PDT.

### **MULTIPLE STARS**

**(SAO Numbers are included for use by computerized go-to mounts)**

#### **Prominent white doubles:**

Mizar (Zeta (ζ) Uma; in Ursa Major; SAO # 028737; 13:23.9 +54:56)

Struve 1962 (in Libra; SAO # 140671; 15:38.7 -08:48)

Graffias (Beta (β) Sco; in Scorpius; SAO # 159682; 16:05.4 -19:48)

Rho (ρ) Her (in Hercules; SAO # 066000; 17:23.7 +37:09)

95 Her (in Hercules; SAO # 085647; 18:01.5 +21:36)

Epsilon (ε) 1 & 2 Lyr (the “double-double”; in Lyra; SAO # 067309; 18:44.3 +39:40)

#### **Prominent doubles of various colors:**

Cor Caroli (Alpha (α) CVn; yellow & blue-grey; in Canes Venatici; SAO # 063257; 12:56.0 +38:19)

Izar (Epsilon (ε) Boo; yellow & blue, magnitude differential challenge; in Boötes; SAO # 083500; 14:45.0 +27:04)

Delta (δ) Ser (yellow & blue; in Serpens Caput; SAO # 101623; 15:34.8 +10:32)

Rasalgethi (Alpha (α) Her, orange & blue-grey; in Hercules; SAO # 102680; 17:14.6 +14:23)

#### **Triple Stars**

Nu (ν) Sco (in Scorpius; SAO # 159764; 16:12.0 -19:28; this is actually a double-double for some telescopes)

16-17 Dra (in Draco; SAO # 030013; 16:36.2 +52:55; two widely separated stars of which one is a tight double)

### **PROMINENT OPEN CLUSTERS**

NGC 6633 & IC 4665 (in Ophiuchus); M6, M7 & NGC 6231 (in Scorpius; declinations respectively -32°, -34° & -41°)

### **PROMINENT GLOBULAR CLUSTERS**

M3 (in Canes Venatici), M53 (in Coma Berenices), M5 (in Serpens Caput), M13 (in Hercules);

M4 (in Scorpius), M10 & M12 (in Ophiuchus)

Note: Omega Centauri (NGC 5139) is above our southern horizon this evening, but we’re unlikely to have an unobstructed view of it from the lawns north of the Griffith Observatory.

### **GALAXIES THAT MIGHT BE VISIBLE IN URBAN SKIES**

M51 & M63 (in Canes Venatici); NGC 2903 (in Leo); NGC 3115 (in Sextans).

### **RED CARBON STARS**

**(SAO Numbers are included for use by computerized go-to mounts)**

SS Vir (in Virgo ; 12:25.3 +00:48; at vertex of isosceles triangle with NGC4517 & SAO # 138721)

Gamma CVn (in Canes Venatici; SAO # 044317; 12:45.1 +45:26.4; Angelo Secchi’s “La Superba”)

T Lyr (in Lyra; SAO # 067087; 18:32.3 +37:00)

**Compiled by Herbert Kraus**